

Elevator Upgrade for the Wilkes-Barre VA Medical Center

Wilkes-Barre VAMC 1111 East End Blvd. Wilkes-Barre, PA 18371

PROJECT DIRECTORY

WILKES-BARRE VA MEDICAL CENTER 1111 EAST END BLVD. WILKES-BARRE, PA 18711 (570) 824-3521

CONTACT: ANDY CULLIPHER

one eighth inch = one foot 0 + 8 + 16

VA FORM 08-6231

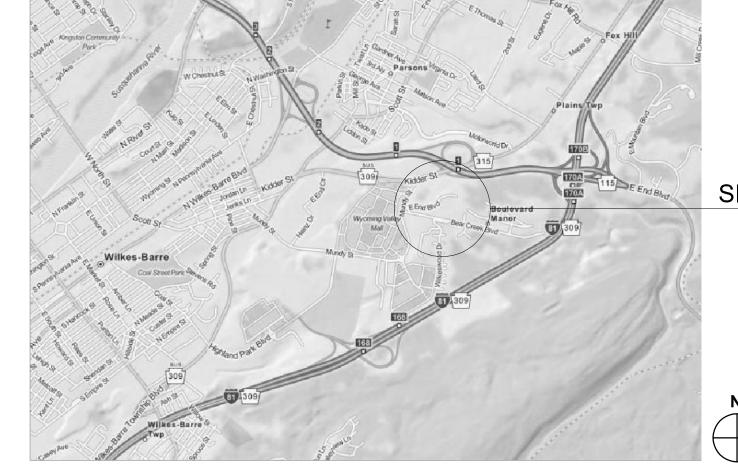
ARCHITECT/ENGINEER:

AE WORKS, LTD
6587 HAMILTON AVENUE
PITTSBURGH, PA 15206
(412) 287-7333

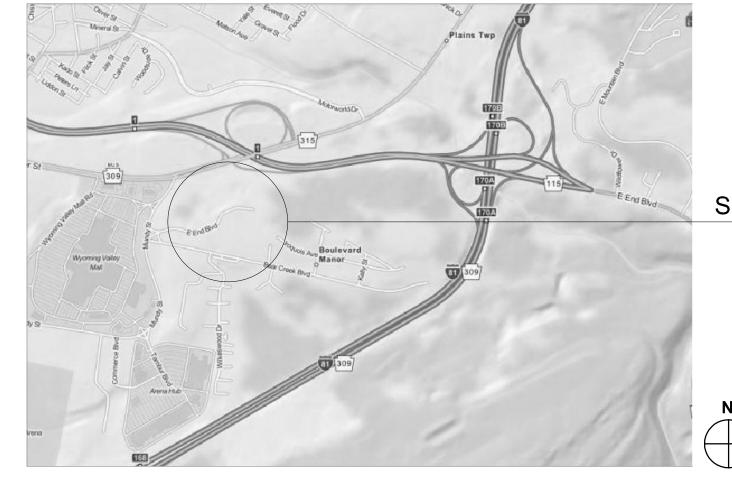
JLLIPHER CONTACT: MIKE FEDERICI

	DRAWING INDEX
SHEET#	SHEET NAME
GENERAL	
G001	COVER SHEET
ARCHITEC [*]	TURAL
AD101	BASEMENT THRU ELEVATOR MACHINE ROOM - DEMOLITION
A101	BASEMENT THRU ELEVATOR MACHINE ROOM - NEW WORK / FINISHES
A102	BASEMENT THRU ELEVATOR MACHINE ROOM - REFLECTED CEILING PLANS
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IRE PROT	ECTION
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H001	HVAC - SYMBOLS, LEGEND & GENERAL NOTES
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E001	ELECTRICAL SYMBOLS, NOTES AND SCHEDULES
ED101	BASEMENT THRU TWELFTH FLOOR - DEMOLITION
E101	BASEMENT THRU TWELFTH FLOOR - NEW WORK

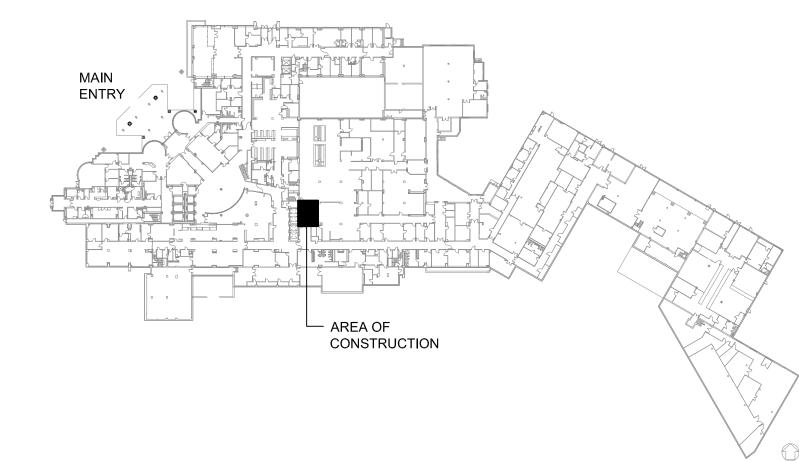
VICINITY MAP



LOCATION MAP



KEYPLAN



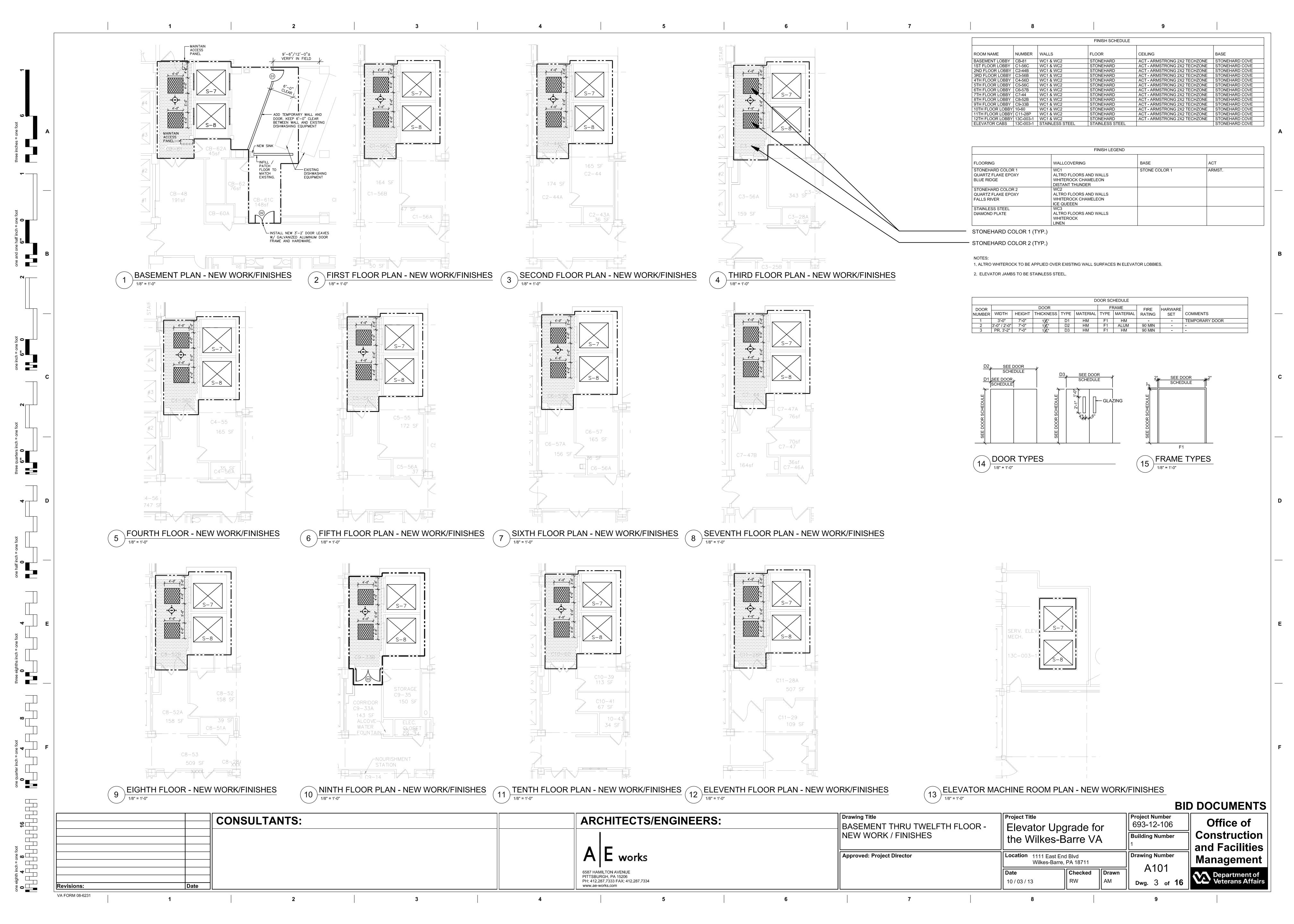
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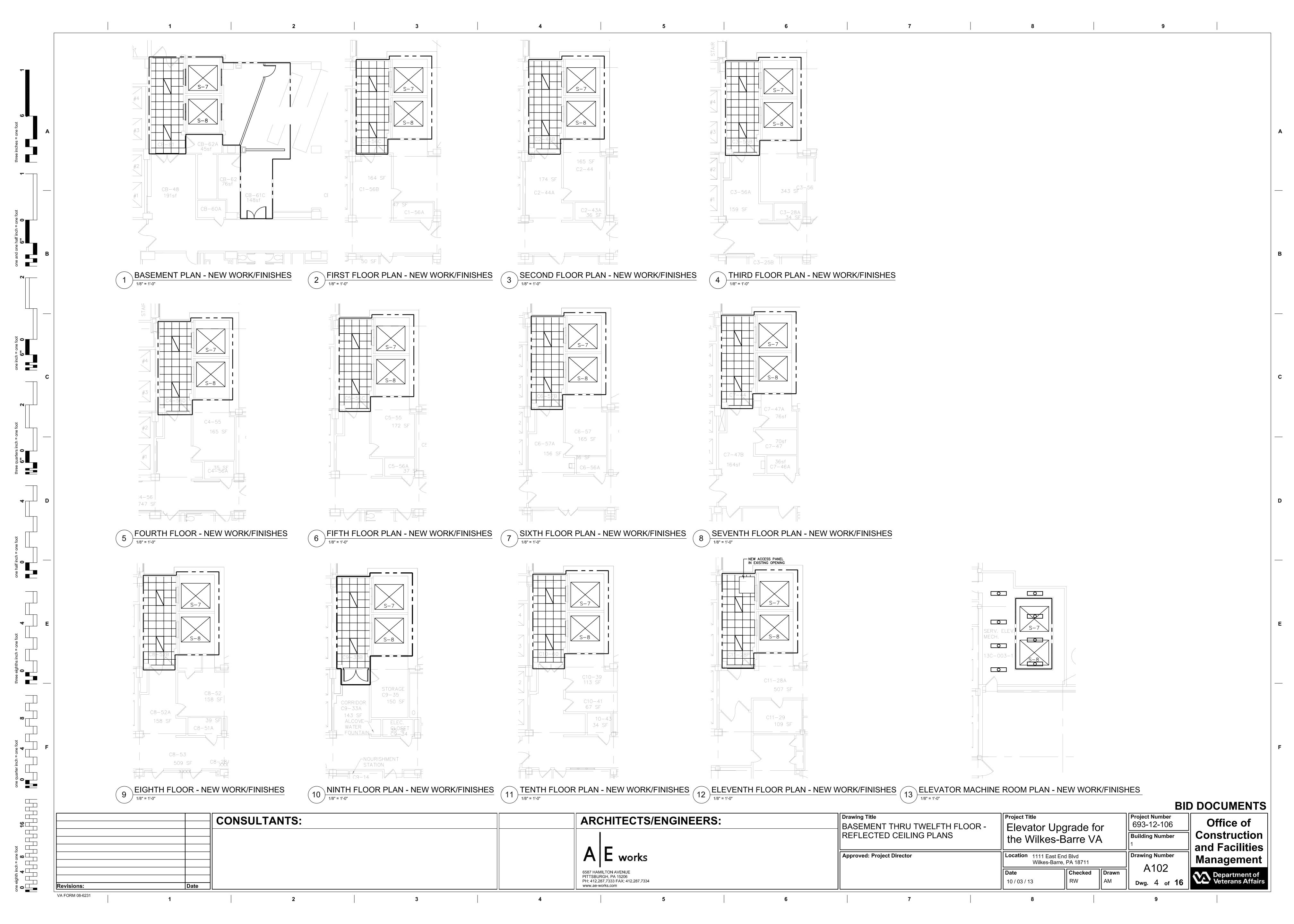
JOE SHARON - ASSOCIATE DIRECTOR	DATE
MIRZA Z. ALI, M.D. – CHIEF OF STAFF	DATE
VALERIE M. BOYTON, R.N., MSN – ASSOCIATE DIRECTOR FOR NURSING SERVICES	DATE
CHRISTOPHER D. ENGLISH, P.E. – CHIEF, FACILITY MANAGEMENT SERVICE	DATE
LAVONN ANDERSON – CHIEF, ENVIRONMENTAL MANAGEMENT SERVICE	DATE
SALLY KASZOWICZ – CHIEF, SPS	DATE
HENRY O'HOP – SUPERVISOR, FACILITIES MAINTENANCE	DATE
KATHLEEN MROZINSKI – INFECTION PREVENTION COORDINATOR	DATE
GARY SMITH – SAFETY & OCCUPATIONAL HEALTH MANAGER	DATE
ORLANDO MIRARCHI – SUPERVISOR, PROJECTS	DATE
DAVID LONGMORE – FACILITY CIO	DATE
DONNA GIRMAN-YOUNGBLOOD – PATIENT SAFETY OFFICER	DATE
ANDREW CULLIPHER – PROJECT MANAGER	DATE

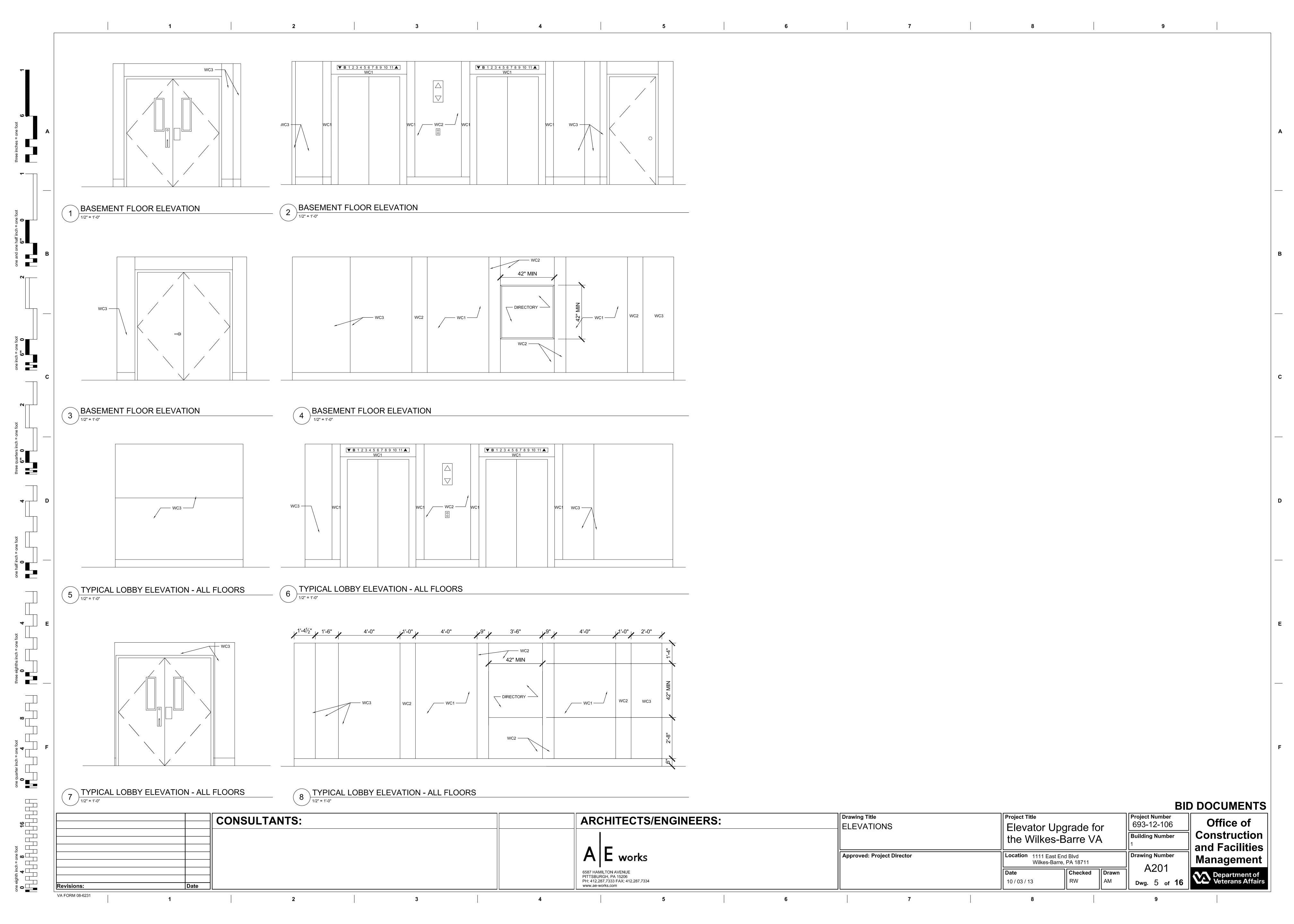
BID DOCUMENTS

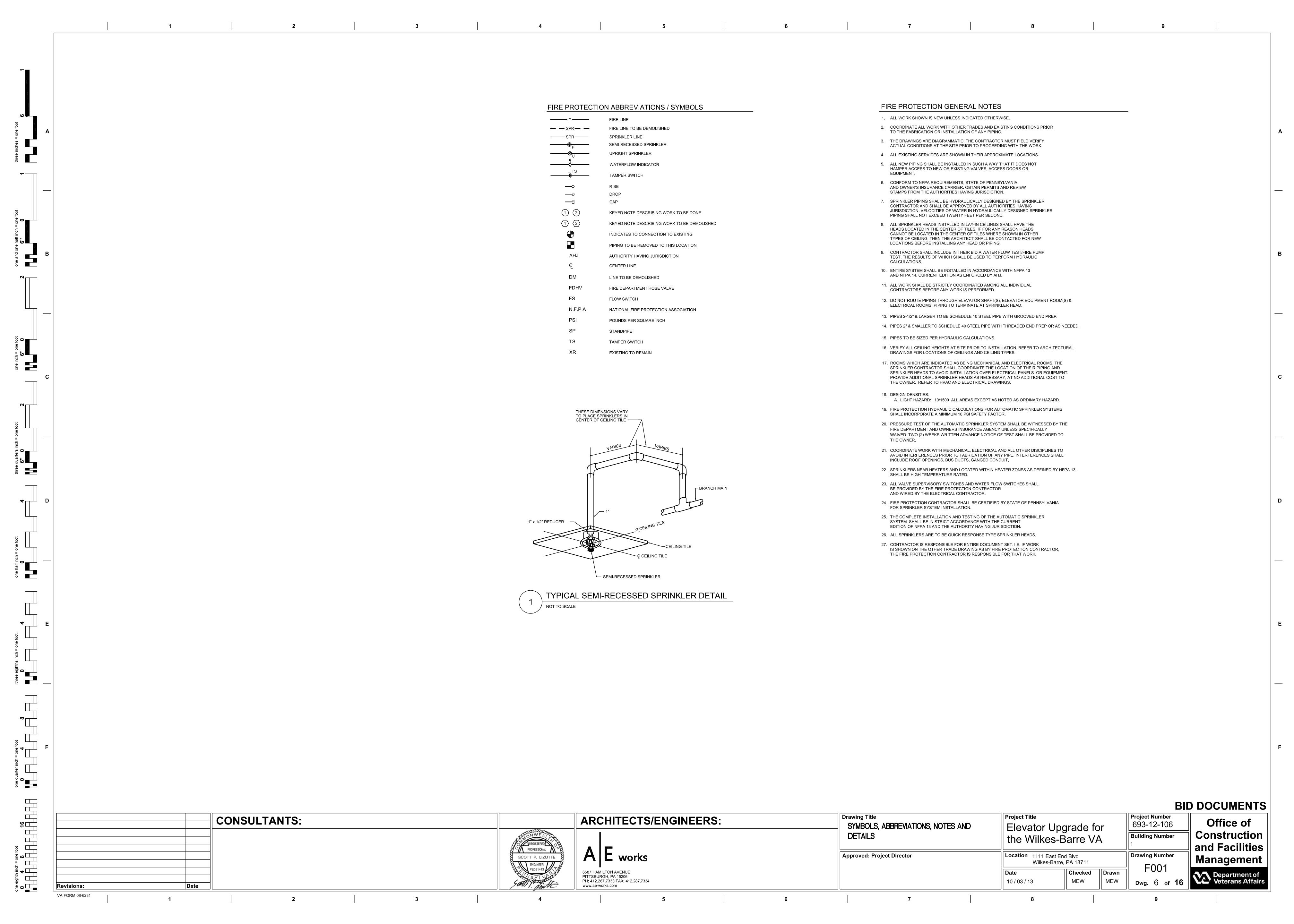
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	CONSULTANTS:	ARCHITECTS/ENGINEERS:	Drawing Title COVER SHEET	Project Title Elevator Upg	grade fo	or	Project Number 693-12-106	Office
				the Wilkes-B		1	Building Number	Construction
		6587 HAMILTON AVENUE	Approved: Project Director	Location 1111 East End Wilkes-Barre,			Drawing Number G001	Managen
visions:	Date	PITTSBURGH, PA 15206 PH: 412.287.7333 FAX: 412.287.7334 www.ae-works.com		10 / 03 / 13	RW	SB	Dwg. 1 of 16	Departm Veterans



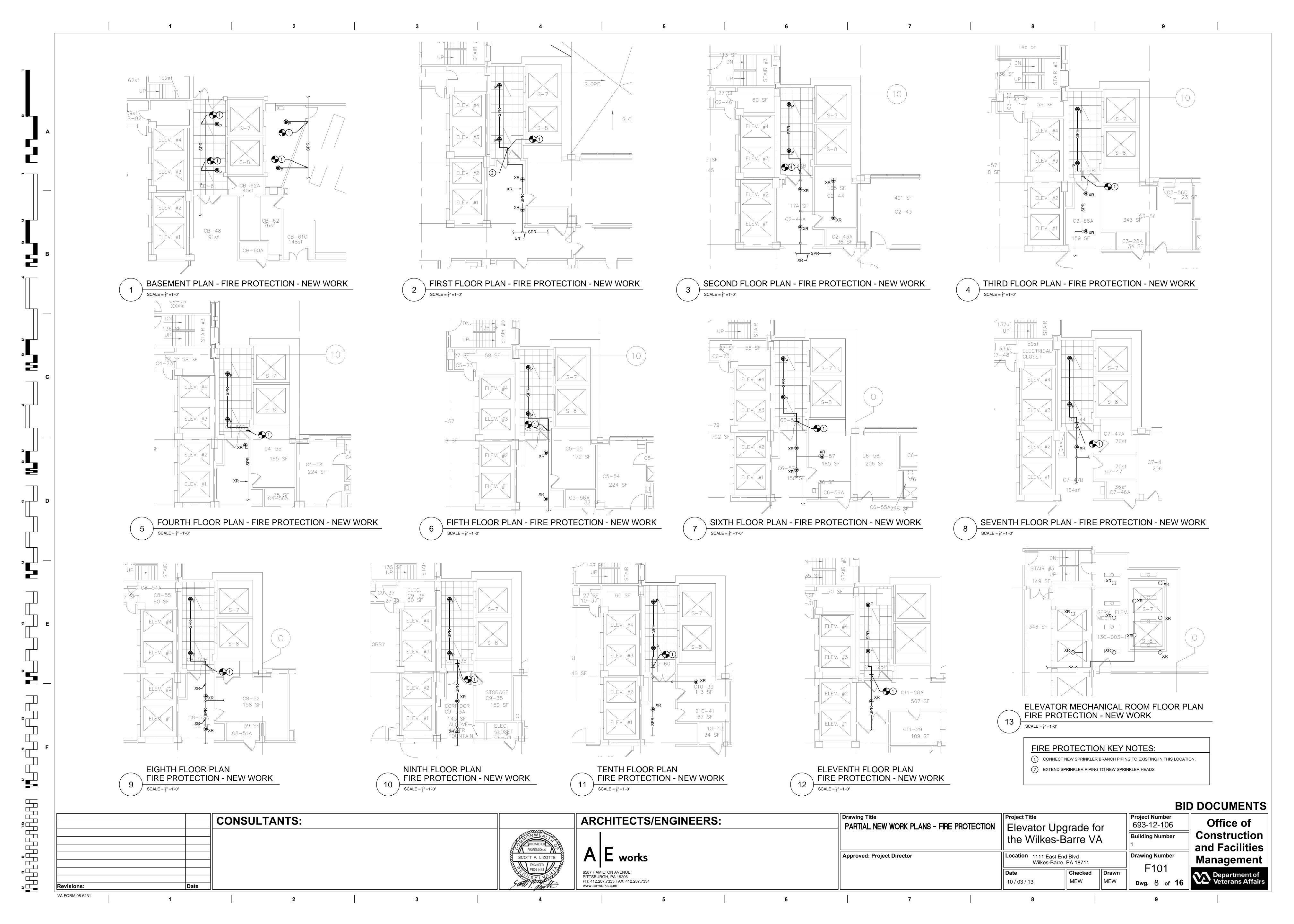


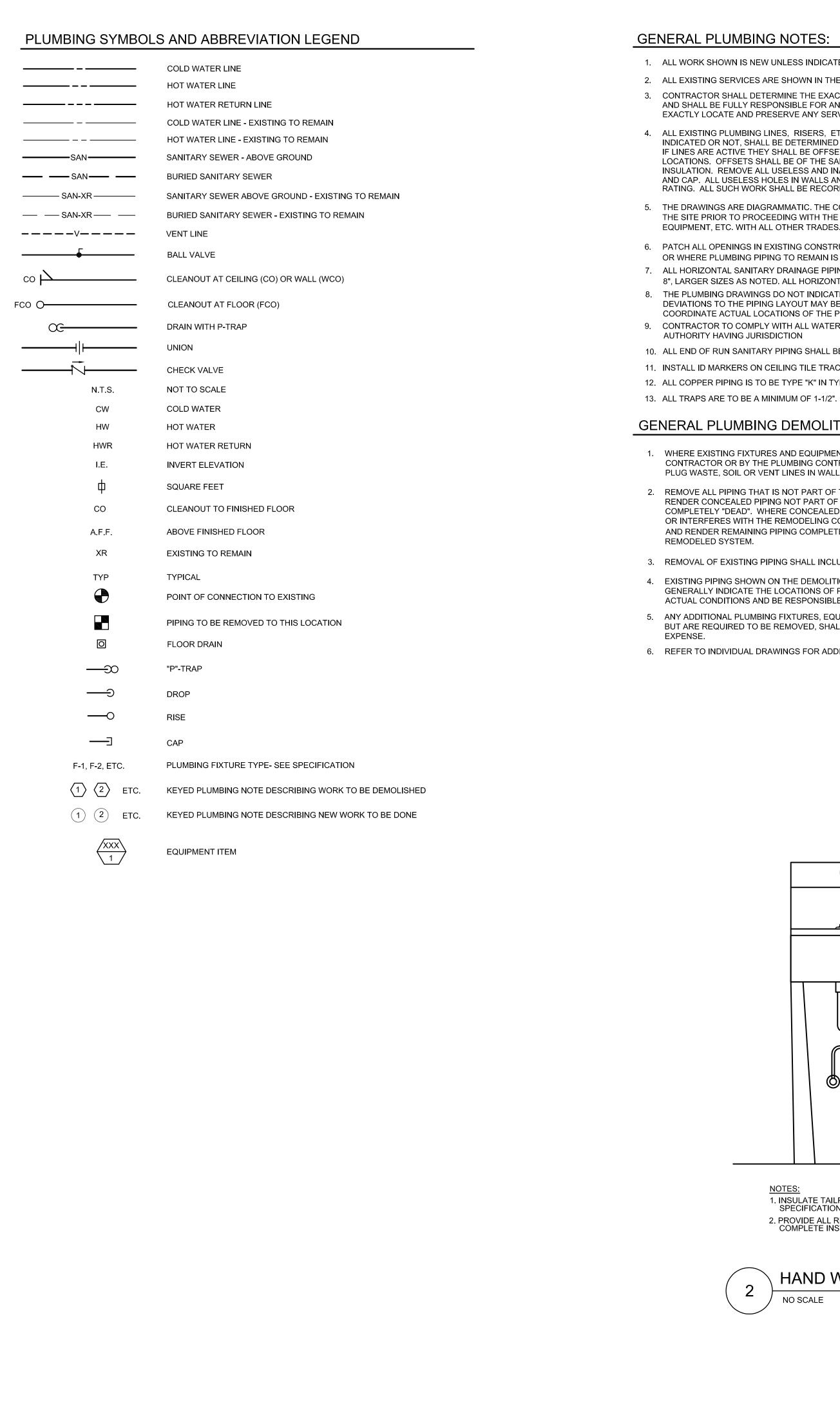












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one eighth inch = one foot

16

4 8 16

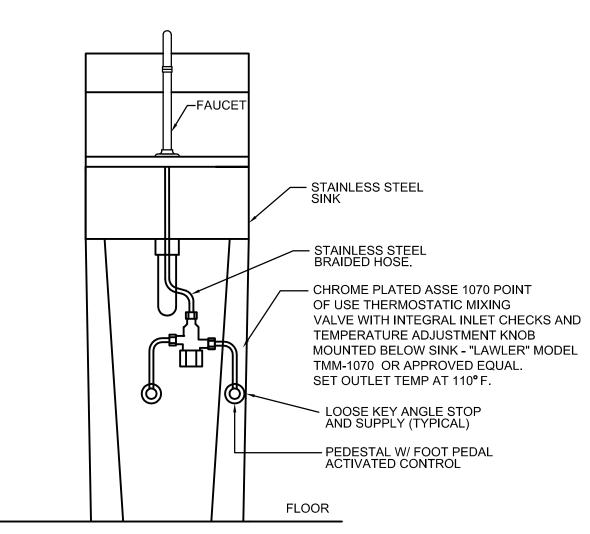
VA FORM 08-6231

GENERAL PLUMBING NOTES:

- 1. ALL WORK SHOWN IS NEW UNLESS INDICATED OTHERWISE.
- 2. ALL EXISTING SERVICES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS.
- 3. CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS OF ALL UTILITIES BEFORE COMMENCING WORK AND SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGE WHICH MIGHT OCCUR DUE TO HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY SERVICES, INCLUDING WORK IN EXISTING PIPE CHASES.
- 4. ALL EXISTING PLUMBING LINES, RISERS, ETC. ENCOUNTERED DURING ALTERATIONS, WHETHER INDICATED OR NOT, SHALL BE DETERMINED TO BE ACTIVE OR INACTIVE BY THIS CONTRACTOR. IF LINES ARE ACTIVE THEY SHALL BE OFFSET AS REQUIRED AND RECONNECTED AT THEIR ORIGINAL LOCATIONS. OFFSETS SHALL BE OF THE SAME SIZE AND MATERIAL AS EXISTING, INCLUDING ANY INSULATION. REMOVE ALL USELESS AND INACTIVE PIPING BACK TO THE MAIN, STACK OR RISER. AND CAP. ALL USELESS HOLES IN WALLS AND CEILINGS SHALL BE PATCHED TO MAINTAIN FIRE RATING. ALL SUCH WORK SHALL BE RECORDED ON THE "RECORD" DRAWINGS.
- 5. THE DRAWINGS ARE DIAGRAMMATIC. THE CONTRACTOR MUST FIELD VERIFY ACTUAL CONDITIONS AT THE SITE PRIOR TO PROCEEDING WITH THE WORK. COORDINATE INSTALLATION OF ALL NEW PIPING, EQUIPMENT, ETC. WITH ALL OTHER TRADES.
- 6. PATCH ALL OPENINGS IN EXISTING CONSTRUCTION WHERE PLUMBING PIPING HAS BEEN REMOVED,
- OR WHERE PLUMBING PIPING TO REMAIN IS NOT SEALED. MAINTAIN EXISTING RATING. 7. ALL HORIZONTAL SANITARY DRAINAGE PIPING IS PITCHED AT 1/4"/FT UP TO 3", 1/8"/FT FOR 4" TO
- 8", LARGER SIZES AS NOTED. ALL HORIZONTAL STORM DRAINAGE PIPING IS PITCHED AT 1/8"/FT 8. THE PLUMBING DRAWINGS DO NOT INDICATE ALL STRUCTURAL BEAMS, COLUMNS AND EXACT SIZES. SOME DEVIATIONS TO THE PIPING LAYOUT MAY BE REQUIRED. REFER TO THE STRUCTURAL PLANS.
- COORDINATE ACTUAL LOCATIONS OF THE PLUMBING LINES DURING CONSTRUCTION. 9. CONTRACTOR TO COMPLY WITH ALL WATER AND SEWER REQUIREMENTS SET FORTH BY THE
- AUTHORITY HAVING JURISDICTION 10. ALL END OF RUN SANITARY PIPING SHALL BE A MINIMUM OF 18" BELOW FINISHED FLOOR.
- 11. INSTALL ID MARKERS ON CEILING TILE TRACK TO INDICATE SHUT-OFF VALVE LOCATIONS.
- 12. ALL COPPER PIPING IS TO BE TYPE "K" IN TYPE.

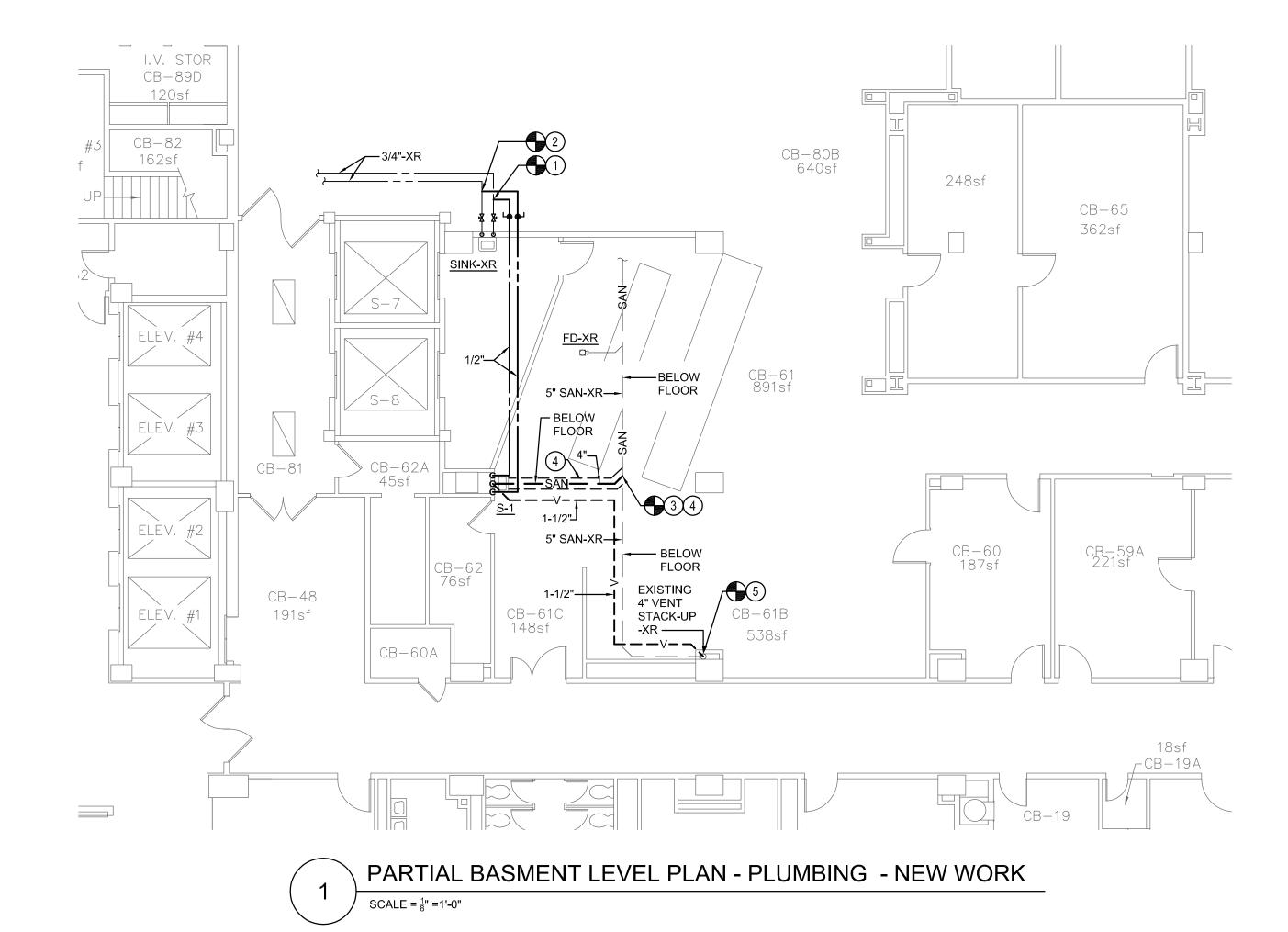
GENERAL PLUMBING DEMOLITION NOTES:

- 1. WHERE EXISTING FIXTURES AND EQUIPMENT ARE DISCONNECTED AND REMOVED BY EITHER THE GENERAL CONTRACTOR OR BY THE PLUMBING CONTRACTOR, THE PLUMBING CONTRACTOR SHALL CAP WATER AND PLUG WASTE, SOIL OR VENT LINES IN WALL, BELOW FLOOR OR ABOVE CEILING.
- 2. REMOVE ALL PIPING THAT IS NOT PART OF THE REMODELED SYSTEM IN THE EXISTING BUILDINGS. RENDER CONCEALED PIPING NOT PART OF THE REMODELED SYSTEM IN THE EXISTING BUILDINGS COMPLETELY "DEAD". WHERE CONCEALED PIPING IS IN EXISTING WALLS OR PARTITIONS TO BE REMOVED OR INTERFERES WITH THE REMODELING CONSTRUCTION, THE PLUMBING CONTRACTOR SHALL REMOVE PIPING AND RENDER REMAINING PIPING COMPLETELY "DEAD" OR RELOCATE PIPING IF IT IS PART OF THE
- 3. REMOVAL OF EXISTING PIPING SHALL INCLUDE ALL HANGERS AND HARDWARE.
- 4. EXISTING PIPING SHOWN ON THE DEMOLITION DRAWINGS WERE TAKEN FROM EXISTING DOCUMENTS. THEY GENERALLY INDICATE THE LOCATIONS OF PIPING TO BE REMOVED. CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS AND BE RESPONSIBLE FOR FIELD CONDITIONS.
- 5. ANY ADDITIONAL PLUMBING FIXTURES, EQUIPMENT, PIPING, AND ACCESSORIES THAT ARE NOT SHOWN, BUT ARE REQUIRED TO BE REMOVED, SHALL BE REMOVED BY THE PLUMBING CONTRACTOR AT THEIR
- 6. REFER TO INDIVIDUAL DRAWINGS FOR ADDITIONAL DEMOLITION NOTES.



1. INSULATE TAILPIECE, "P" TRAP, SUPPLIES AND STOPS PER PROVIDE ALL REQUIRED SUPPLY TUBING REQUIRED FOR COMPLETE INSTALLATION.





(1) CONNECT NEW 1/2" CW TO EXISTING 3/4" CW PIPING ABOVE THIS CEILING.

PLUMBING KEY NOTES:

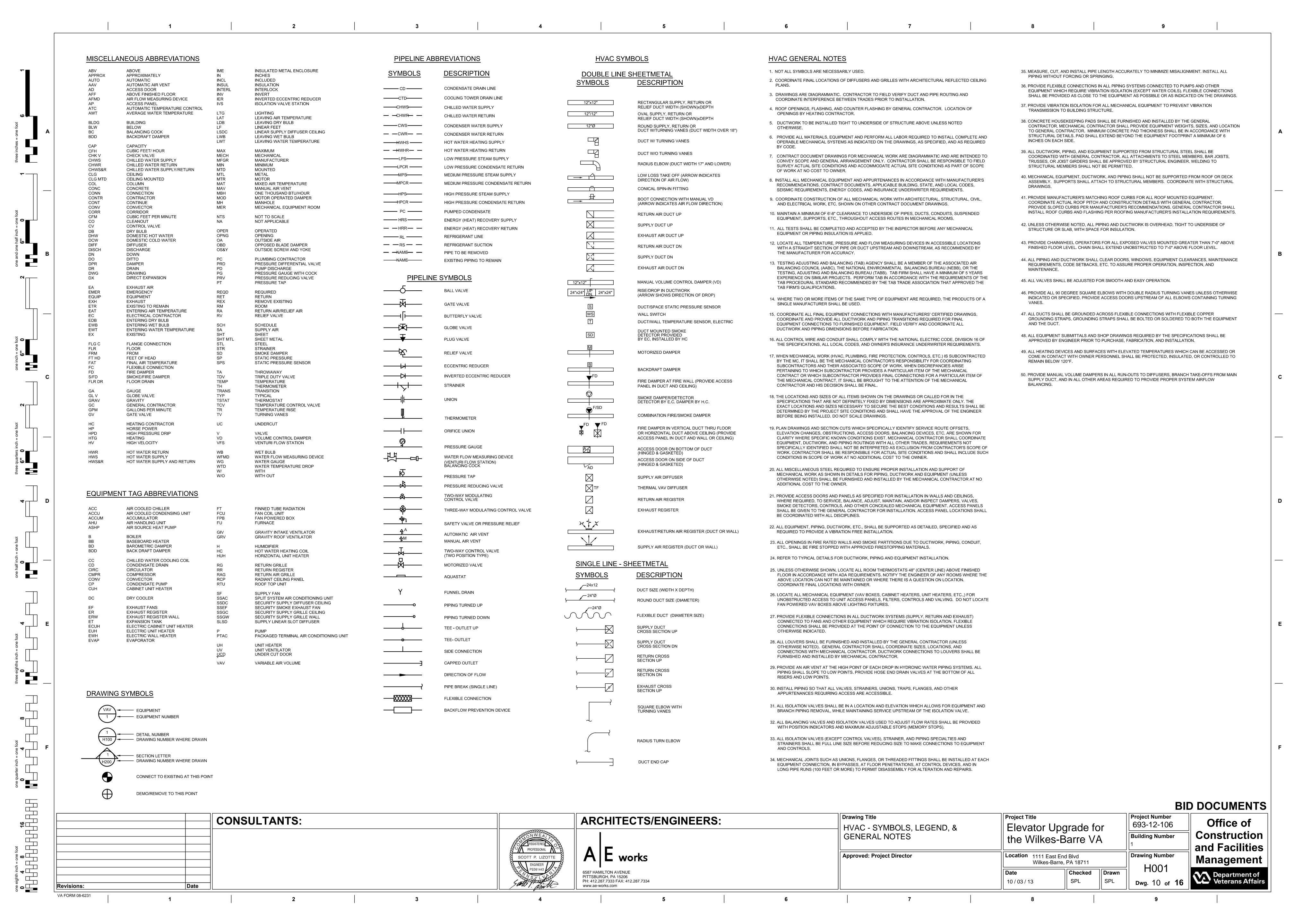
- (2) CONNECT NEW 1/2" HW TO EXISTING 3/4" HW PIPING
- ABOVE THIS CEILING. (3) CONNECT 4" SANITARY PIPING TO EXISTING SANITARY MAIN.
- (4) SAWCUT EXISTING FLOOR AS NECESSARY TO ACCOMMODATE

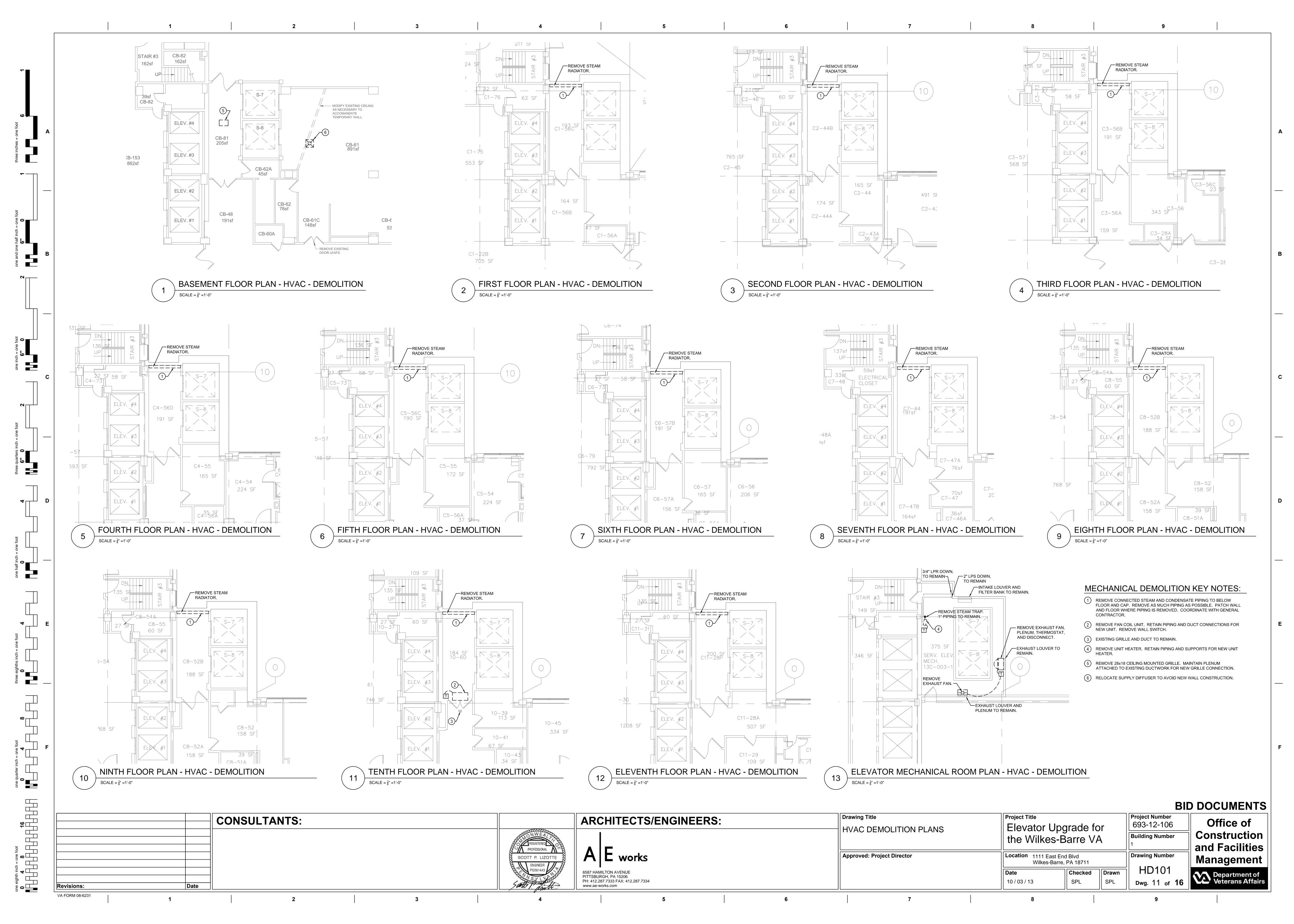
(5) CONNECT NEW 2" VENT TO EXISTING 2" VENT STACK IN THIS LOCATION.

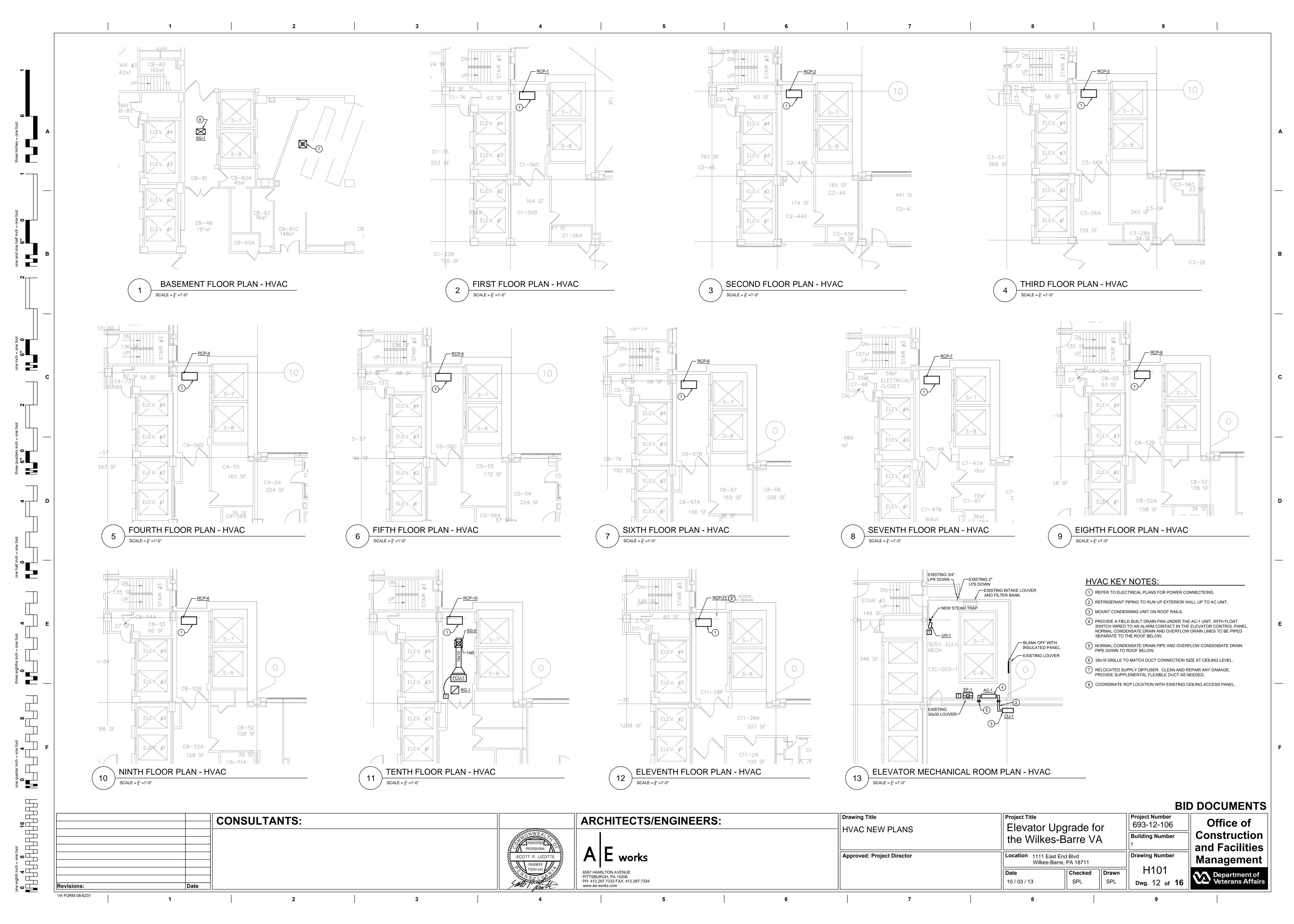
PLUMBING FIXTURE SCHEDULE SEE SPECIFICATIONS FOR FIXTURE TYPE DESCRIPTION SIZE TYPE DESCRIPTION FIXTURE WASTE VENT HW CW ---- | 2" | 1-1/2" | 1/2" | SINGLE BOWL - HANDS FREE SINK W/ FOOT PEDAL CONTROL AND PEDESTAL SINK - STAINLESS STEEL

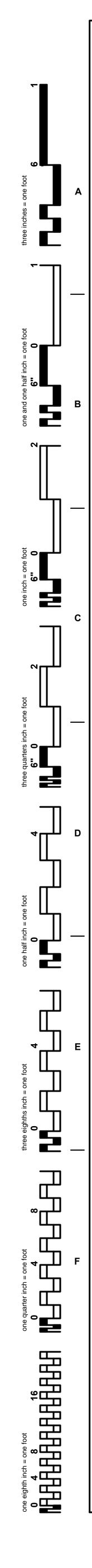
BID DOCUMENTS

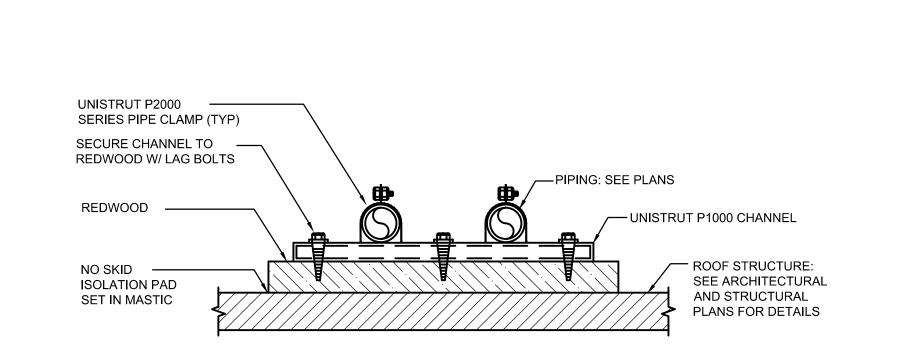
Drawing Title Project Title **Project Number CONSULTANTS: ARCHITECTS/ENGINEERS:** Office of 693-12-106 PARTIAL NEW WORK PLAN - PLUMBING Elevator Upgrade for Construction **Building Number** the Wilkes-Barre VA and Facilities A E works **Drawing Number** Approved: Project Director **Location** 1111 East End Blvd Wilkes-Barre, PA 18711 Management P101 6587 HAMILTON AVENUE PITTSBURGH, PA 15206 PH: 412.287.7333 FAX: 412.287.7334 Drawn Checked 10 / 03 / 13 MEW Dwg. 9 of **1** Revisions: Date www.ae-works.com





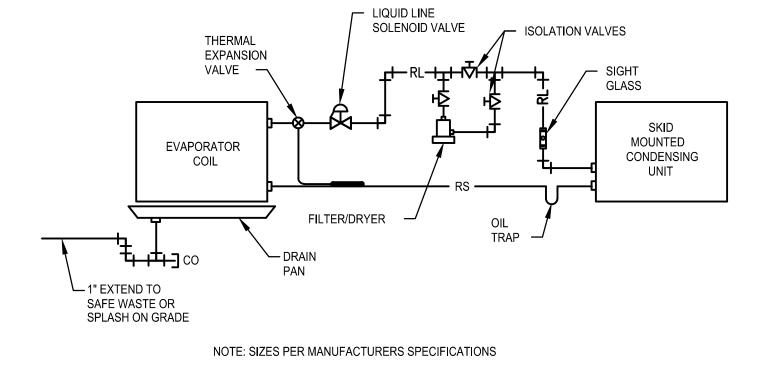






ROOF MOUNTED PIPE

SCALE: NONE



 SUPPORT FROM STRUCTURE W/SPRING & NEOPRENE TYPE VIBRATION ISOLATORS AND 3/8" HANGER RODS

COIL

☐INSULATED CONDENSATE PAN

FLEXIBLE CONNECTION, TYP.



CHILLED WATER PIPING ——

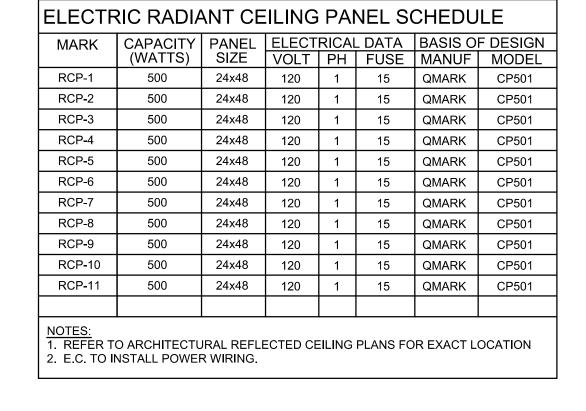
INSULATED TRAPPED COND.DRAIN(REFER ENLG'D. HVAC PLAN FOR ROUTING)

RET. AIR DUCT

(REFER HVAC PLAN)

HINGED CABINET DOOR
TO PROVIDE FULL ACCESS

FILTER —



T 4 0	055) (105	F) (DL	AIRFLOW	NECK	INTERNAL		BASIS OF D	ESIGN
TAG	SERVICE	TYPE	RANGE	SIZE (IN)	DAMPER	MATERIAL	MANUF.	MODEL
SG-1	SUPPLY	SURFACE MTD	900 - 1500	28x18	NO	STEEL	TITUS	301RL
SG-2	SUPPLY	24x24 LAY-IN	500 - 700	14"Ø	YES	STEEL	TITUS	OMNI
RG-1	RETURN	24x24 LAY-IN	500 - 700	24x24	NO	ALUMINUM	TITUS	50F

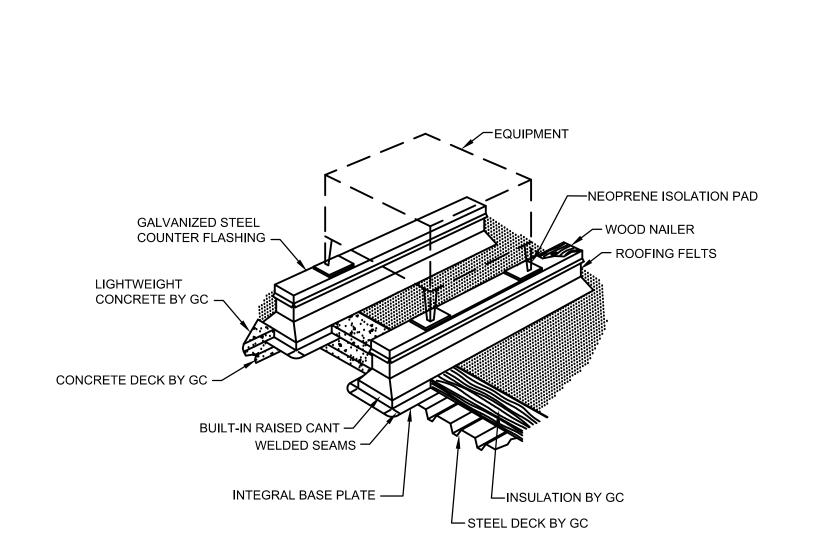
MADIC	CED/ICE		LATED	MDLI	DOLO	D/UD	FAN	ELECTI	RICAL	_ DATA	BASIS OF D	DESIGN
MARK	SERVICE	EAT DB	LAT DB	MBH	PSIG	LB/HR	CFM	VOLT	PH	MCA	MANUF.	MODE
UH-1	ELEV MACH ROOM	60 °F	105 °F	18	2	18	395	120	1	0.7	AIRTHERM	HA-018

						ELECTRICA	L				BASIS OF D	ESIGN
MARK	TYPE/SERVICE	CFM	SP	HP	BHP	VOLTAGE	PHASE	RPM	SONES	DRIVE	MANUF.	MODEL
EF-1	ELEV MACH ROOM	2000	0.50	1/3	0.35	120	1	1750	26	DIRECT	GREENHECK	SE2-20-407

FAN	COIL UN	NIT SC	HEDULE																
MADIC			SECTION	CHILLED) WATER	COIL				FAN D	ΑΤΑ			UNIT E	LECT	RICAL [DATA	BASIS OF DESIGN	
MARK	SERVICE	EFF	TYPE	EAT DB	LAT DB	EWT	LWT	TOT CAP	SENS CAP	CFM	SP	WATTS	RPM	VOLT	PH	MCA	MOCP	MANUF.	MODEL
FCU-1	10th FLR	30	1" THROWAWAY	80 °F	55 °F	42	54	14.0	12.1	500	0.20	147	1080	120	1	1.45	15	MCQUAY	FCHH-106
2. INSU 3. OPE 4. SUP	N RETURN. PLY DUCT (URN PLE	ENUM WITH INTEG	GRAL FILT	ER FRAME	Ξ.													

۸ <u> ا</u>	CED\/ICE	COOLING	SENSIBLE		AIRFLOW	SOUND RATING	ELECT	RICA	λL		BASIS OF	DESIGN	UNIT
AG	SERVICE	19/1/OH 9/1/OH 19/1/OH TYPE 120W/WEB/HIGH		LOW / MED / HIGH (dB-A, INDOOR UNIT)	VOLT	РН	MCA	MAX. FUSE	MANUF.	MODEL	WEIGH (LBS)		
\C-1	ELEV MACH ROOM	33	32	 REUSABLE	389 / 639 / 848	32 / 42 / 49	208	1	1.0	15	MITSUBISHI	MSZ-D36	50
C-1	ELEV MACH ROOM	33	32	 REUSABLE	389 / 639 / 848	32 / 42 / 49	208	1	1.0	15	MITSUBISHI	MSZ	-D36

TAG		NOMINAL	DESIGN	FAN	WEIGHT	REFRI	GERANT	ELECTRICA	AL .		BASIS OF DE	ESIGN	
NUMBER	SERVICE	CAPACITY (TONS)		QTY.	(LBS)	TYPE	COMP. TYPE	VOLTS/ PHASE	MCA	MAX FUSE	MANUF.	MODEL	REMARKS
CU-1	AC-1	3	95	2	300	R-410a	INVERTER	208/3	21	40	MITSUBISHI	MUZ-D36	PROVIDE SUPPORT SYSTEM TO RAISE THE UNIT 12" ABO
													THE ROOF, SIMILAR TO AIRTEC BIG FOOT SYSTEMS

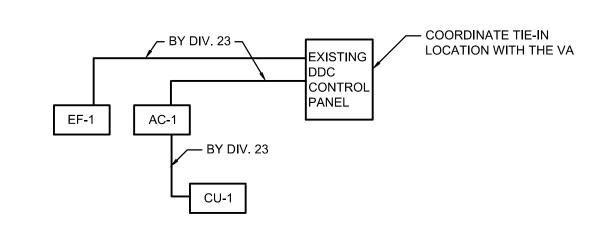






1. ALL VALVES, PIPING AND EQUIPMENT SHOWN TO BE LOCATED INSIDE FAN COIL UNIT CABINET WITH ACCESS FROM BELOW UNIT.

0 0





					BI	D DOCUMENTS
	CONSULTANTS:	ARCHITECTS/ENGINEERS:	Drawing Title	Project Title	Project Number 693-12-106	Office of
		JON WEAL S	HVAC EQUIPMENT SCHEDULES	Elevator Upgrade for the Wilkes-Barre VA	Building Number	Construction
		REGISTERED PROFESSIONAL		the wirkes-barre va	1	and Facilities
		SCOTT P. LIZOTTE A L WORKS	Approved: Project Director	Location 1111 East End Blvd Wilkes-Barre, PA 18711	Drawing Number	Management
		PE061443 6587 HAMILTON AVENUE PITTSBURGH, PA 15206		Date Checked Drawn	H701	Department of
Revisions: Date		PH: 412.287.7333 FAX: 412.287.7334 www.ae-works.com		10 / 03 / 13 SPL SPL	Dwg. 13 of 16	Veterans Affairs

	FLUDRESCENT RECESSED MOUNTED TROFFER, (1X4, 2X2, 2X4) AND ACCESSORIES PER FIXTURE SCHEDULE.	(ANT)	PATIENT WANDERING\EMERGENCY DURESS SYSTEM ANTE
\$ _X	WALL SWITCH, CONTROL: X = 3: 3 WAY, 4: 4 WAY, LV: LOW VOLTAGE, P: PILOT LIGHT, M: MOTOR SWITCH, I: TIMER	•	HAND-OFF-AUTO SWITCH
FAC	FIRE ALARM CABINET	(AP)	WIRELESS ACCESS POINT
	SMOKE DETECTOR	CR	ACCESS CONTROL READER
φ	DUPLEX RECEPTACLE IN A 4" SQUARE BOX WITH PLASTER RING (IN DRYWALL) SINGLE GANG. BOX IN MASONRY. WP=WEATHERPROOF, SS=SURGE SUPPRESSOR, GFI= GROUND FAULT INTERRUPTER)		CCTV CAB CAMERA
FX FX	FLUDRESCENT STRIP FIXTURE, LENGTHS AS SHOWN ON DRAWINGS (2',3'4'8'), LAMPS AND ACCESSORIES PER FIXTURE SCHEDULE.	S	HEAT DETECTOR
	MAGNETIC DOOR HOLD OPEN DEVICE		FUSED DISCONNECT SWITCH - 30AMP SINGLE POLE 20A FUSES, UND
×x	STROBE UNIT SYNCHRONIZED WALL MOUNT (XX-CD = CANDELA RATING) C = CEILING MTG. WP = WEATHER PROOF WG = WIRE GUARD		
	COMBO SYNCHRONIZED HORN/STROBE UNIT (XX-CD = CANDELA RATING) C = CEILING MTG. WG = WIRE GUARD WP = WEATHER PROOF		
	NEW PANELBOARD - SURFACE MOUNTED NEW PANELBOARD - RECESSED MOUNTED EXISTING PANELBOARD - SURFACE MOUNTED EXISTING PANELBOARD - RECESSED MOUNTED		
FACP	ADDRESSABLE FIRE ALARM CONTROL PANEL		
OH FX	WALL SCONCE, OR WALL MOUNTED FIXTURE, ACCESSORIES PER THE FIXTURE SCHEDULE.		
∇xx	TELECOMMUNICATIONS OUTLET* W-WALL MOUNTED TELEPHONE JACK		
(RL)	REAL TIME LOCATING SYSTEM		
XX ⊠¬	COMBINATION STARTER/DISCONNECT SWITCH XX=AMPACITY, YY=NEMA RATING		
<u>S</u>	PUBLIC ADDRESS LOUDSPEAKER A = AUDIO ENHANCEMENT SPEAKER V = VOX CONTROLLED SPEAKER VC = VOLUME CONTROL EQUIPPED SPEAKER		

NUMBERED NOTE	(M) (D)	JUNCTION BOX, RECESSED OR SURFACE MOUNTE:
EQUIPMENT TAG		
REVISION TRIANGLE WITH REVISION CLOUD		
GROUND PER NATIONAL ELECTRIC CODE		
BOND OR TAP PER THE NATIONAL ELECTRIC CODE		
ABOVE GRADE/SLAB HOMERUN		BELOW GRADE/SLAB ENCLOSED IN CONDUIT
	EQUIPMENT TAG REVISION TRIANGLE WITH REVISION CLOUD GROUND PER NATIONAL ELECTRIC CODE BOND OR TAP PER THE NATIONAL ELECTRIC CODE	EQUIPMENT TAG REVISION TRIANGLE WITH REVISION CLOUD GROUND PER NATIONAL ELECTRIC CODE BOND OR TAP PER THE NATIONAL ELECTRIC CODE

Revisions:

VA FORM 08-6231

STANDARD MOUNTING HEIGHTS CEILING RECESSED LIGHTING FIXTURES, CEILING MOUNTED RECEPTACLES, INDICATING LIGHTS, ETC. 7'-0" A.F.F. WALL MOUNTED LIGHTS IN STAIRS, MECH ROOMS TOP MOST PORTION OF OPERATING HANDLE OF 6'-6" A.F.F. DISCONNECT SWITCHES / CIRCUIT BREAKERS TOP OF PANELBOARDS (<6'-0' TALL) 6'-0" A.F.F. WALL SWITCHES, THERMOSTATS, CONTROL 4'-0" A.F.F. TO CENTER OF BOX ABOVE COUNTER DEVICES, GFI RECEPTACLES IN 3'-6" A.F.F. RECEPTACLES, FURNITURE FEEDS 1'-5" A.F.F. IN FLOOR JUNCTION BOXES FLUSH TO FINISHED FLOOR (FF) IN MASONRY CONSTRUCTION THE MOUNTING HEIGHTS SHALL BE USED FOR REFERENCE TO THE NEAREST BLOCK OR BRICK COURSING. THE ABOVE MOUNTING ELEVATIONS ARE TO CENTER OF DEVICE AND SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWINGS AND/OR SPECIFICATIONS. COORDINATE THE INSTALLATION AND MOUNTING ELEVATIONS OF ALL EQUIPMENT, DEVICES, CONTROLS AND APPURTENANCES WITH

ARCHITECT AND ALL AFFECTED TRADES PRIOR TO INSTALLATION.

DEVICES, CONTROLS AND APPURTENANCES AT THE TIME OF SHOP

 \mid 4. VERIFY MOUNTING HEIGHT OF ALL LUMINAIRES WITH ARCHITECT PRIOR TO INSTALLATION.

DOCUMENT ALL MOUNTING ELEVATIONS FOR ALL EQUIPMENT,

	LUMINAIRE DATA				LAMP DATA			
ΓAG	ENERGY (KW)	DESCRIPTION	MANUFACTURER/ CATALOG NUMBER	VOLTAGE	QUANTITY	TAG	LOCATION	
A	63	RECESSED 2×4, (2) LAMP FLUDRESCENT TROFFER WITH PRISMATIC LENS	HE WILLIAMS 50GS24232SA12125EB2120	120	2	FA	ELEVATOR LOBBY	
В	63	(2) LAMP SURFACE MOUNTED ENCLOSED INDUSTRIAL FLUORESCENT LUMINAIRE	HE WILLIAMS 924232AEB2120	120	2	FA	ELEVATOR PIT & SHA	
С	63	(2) LAMP 4' FLUORESCENT STRIP FIXTURE WITH WIRE GUARD	HE WILLIAMS 764232WG7614EB2120	120	2	FA	VERTICALLY MOUNT IN ELEVATOR SHAF	

- 1											
	LAMP SCHEDULE										
	TAG	LAMP WATTS	DESCRIPTION	MANUFACTURER/ CATALOG NUMBER	RATED LAMP LIFE (HOURS)	RATED LUMENS (INITIAL)	REMARKS				
	FA	32	4' LINEAR FLUDRESCENT LAMP WITH 3500K COLOR TEMPERATURE	SYLVANIA F032/835/XP/XL/ECD3	60,000	2950	ALTERNATE LAMP MANUFACTURERS ARE PHILIPS AND GENERAL ELECTRIC				

GENERAL ELECTRICAL INSTALLATION NOTES:

- 1. THE FOLLOWING GENERAL NOTES AS LISTED BELOW SHALL APPLY TO ALL ELECTRICAL REQUIREMENTS AS INDICATED ON ALL ET SERIES CONTRACT DRAWINGS.
- 2. DRAWINGS FOR THIS WORK ARE DIAGRAMMATIC AND INTENDED TO CONVEY THE EXTENT, GENERAL ARRANGEMENT AND LOCATIONS OF THE WORK. BECAUSE OF THE SCALE OF THE DRAWINGS, CERTAIN BASIC ITEMS SUCH AS ACCESS PANELS, CONDUITS, CABINET SIZES, PENETRATION SLEEVES, PULL BOXES, BACKBOXES AND JUNCTION BOXES MAY NOT BE SHOWN. INCLUDE ALL ITEMS WHERE REQUIRED BY CODE, MANUFACTURER AND RELATED SPECIFICATION SECTIONS FOR THE PROPER INSTALLATION OF ALL WORK.
- 3. DUE TO SCALE OF THE DRAWINGS, ALL ELECTRICAL DEVICE SYMBOLS ARE SHOWN ON DRAWINGS AS CLOSE AS POSSIBLE TO THEIR INTENDED LOCATION. CONTRACTOR SHALL COORDINATE IN THE FIELD THE PROPER INSTALLATION OF ALL EQUIPMENT, DEVICES, CONTROLS AND CONDUITS, REFER TO RELATED SPECIFICATION SECTIONS FOR ADDITIONAL
- REQUIREMENTS.

 4. COURDINATE WITH ALL TRADES AND SYSTEM INTEGRATORS ANY CONDITIONS RELATED TO THE INSTALLATION OF ALL SYSTEMS. THE CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE TRADE ALL INSTALLATION REQUIREMENTS IMPACTING THE PLACEMENT OF ALL SYSTEM COMPONENTS TO THE SATISFACTION OF ALL CONCERNED TRADES.
- 5. COORDINATE EXACT LOCATION OF ALL DESK OR COUNTER MOUNTED EQUIPMENT WITH OWNER AND ARCHITECT AND ALL AFFECTED TRADES PRIOR TO THE INSTALLATION OF ANY EQUIPMENT AND/OR BOXES.
- 6. COORDINATE EXACT LOCATION(S) OF ALL DATA AND TELEPHONE OUTLETS, ELECTRICAL RECEPTACLES WITH THE ARCHITECTURAL PLANS, FURNITURE PLANS AND ALL AFFECTED TRADES PRIOR TO INSTALLATION.
- 7. ALL CONDUITS SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH NFPA 70 AND PROJECT SPECIFICATIONS. ALL CONDUITS SHALL BE A MINIMUM OF 3/4" UNLESS OTHERWISE NOTED.
- 8. PROVIDE ALL EQUIPMENT CLEARANCES IN ACCORDANCE WITH NEC REQUIREMENTS. ARRANGE EQUIPMENT TO FACILITATE UNRESTRICTED ACCESS FOR MAINTENANCE AND SERVICE AROUND ALL EQUIPMENT, COMPONENTS AND/OR CABLE
- TERMINATIONS.

 9. WHERE EQUIPMENT AND/OR JUNCTION BOXES ARE INSTALLED ABOVE FINISHED CEILINGS, THE CONTRACTOR SHALL PROVIDE ACCESS HATCHES LISTED FOR THE INTENDED APPLICATION. ACCESS HATCHES SHALL BE LOCATED SO THAT SERVICE ACCESS TO THE EQUIPMENT AND/OR JUNCTION BOXES IS UNIMPEDED.
- 10. ALL PENETRATIONS OF WALLS AND/OR FLOORS SHALL BE FIRE STOPPED IN ACCORDANCE WITH THE ASTM AND NFPA REQUIREMENTS. REFER TO RELATED SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION. INSTALLATION OF FIRE-STOPS SHALL BE PERFORMED BY AN APPLICATOR/INSTALLER QUALIFIED AND TRAINED BY THE MANUFACTURER. INSTALLATION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH MANUFACTURER'S DETAILED INSTALLATION PROCEDURES.

- 11. ALL EQUIPMENT ENCLOSURES LOCATED OUTSIDE OR IN ALL AREAS WITH HIGH MOISTURE OR A RELATIVE HUMIDITY OF 75% OR GREATER SHALL BE NEMA 4X STAINLESS STEEL AND RATED FOR THAT APPLICATION.
- 12. ALL DEVICES, COMPONENTS OR EQUIPMENT INSTALLED ON THE EXTERIOR OF THE FACILITY SHALL BE PROVIDED IN ACCORDANCE WITH ALL MANUFACTURERS' REQUIREMENTS TO ENSURE THE PROPER OPERATION WHEN EXPOSED TO THE ENVIRONMENTAL CONDITIONS AND/OR AVERAGE ANNUAL LOWEST TEMPERATURE THAT CAN BE ANTICIPATED FOR THE GEOGRAPHIC REGION OF THE FACILITY.
- 13. ALL INTERIOR AND/OR EXTERIOR COMPONENTS, DEVICES OR SYSTEMS EQUIPMENT EXPOSED TO THE GENERAL POPULATION SHALL BE INSTALLED IN SECURED EQUIPMENT ENCLOSURES WITH TAMPER SWITCHES AND INSTALLED IN SUCH A MANNER THAT RESISTS TAMPERING AND/OR REMOVAL WITHOUT THE USE OF SPECIALIZED TOOLS.
- 14. FOR EQUIPMENT INSTALLATIONS REQUIRING COORDINATION WITH OTHER TRADES THE CONTRACTOR SHALL PROVIDE ALL TEMPLATES, BACKBOXES AND EQUIPMENT ANCHOR BOLTS FOR MOUNTING OR FLUSH MOUNTING PREPARATION, (E.G. PEDESTALS OR OTHER DEVICES REQUIRING MOUNTING ON WALLS, CONCRETE PADS OR OTHER MATERIALS). COORDINATE DELIVERY OF TEMPLATES AND EQUIPMENT WITH ALL AFFECTED CONTRACTORS.
- 15. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE ENTIRE DOCUMENT SET, I.E. IF WORK IS SHOWN ON OTHER TRADE DRAWINGS AS "BY ELECTRICAL CONTRACTOR", THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THAT WORK.
- 16. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (LATEST VERSION BEING ENFORCED), AND ALL OTHER APPLICABLE CODES AND STANDARDS BEING ENFORCED BY THE AUTHORITY HAVING JURISDICTION.
- 17. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS OR INSTRUCTIONS FOR CONSTRUCTION SAFETY. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ANY WORKMAN'S OR TRANSIENT'S SAFETY, OR FOR THE ADEQUACY OF EQUIPMENT, BUILDING COMPONENTS, WORK AIDS, OR ANY NECESSITY TO WORK ON ENERGIZED ELECTRICAL COMPONENTS. FURTHER, NO SUPERINTENDENCE IS INCLUDED OR IMPLIED.
- 18. ALL SYSTEMS AND EQUIPMENT SHALL BE INSTALLED AND WIRED ACCORDING TO THE MANUFACTURER'S
- RECOMMENDATIONS.

 19. ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES, AND EQUIPMENT SHALL BE TESTED AND LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
- 20. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL TRAFFIC CONTROL, FLAGMEN, SIGNAGE, ETC. WHEN DOING WORK THAT INTERFERES WITH THE PUBLIC RIGHT-OF-WAY.
- 21. THE VERBIAGE ON THE DRAWINGS INDICATING TYPES OF MATERIALS TO BE ENCOUNTERED IS INTENDED TO AID THE ELECTRICAL CONTRACTOR IN UNDERSTANDING THE VARIOUS CONDITIONS LIKELY TO BE ENCOUNTERED. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING QUANTITIES OF MATERIALS REQUIRED TO COMPLETE THE

22. THE LOCATIONS OF EXISTING UTILITIES, STRUCTURE AND OTHER CONDITIONS SHOWN ON THE PLANS ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VERIFY AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO BEGINNING ANY WORK.

ABBREVIATIONS

above finished floor

alternating current

American wire gauge

below finished ceiling

attenuation/crosstalk ratio ACR

automatic transfer switch

approximatele(ly)

asymmetric

AWG

BLK

CATV

CCTV

DED

DPDT

CIR/CKT

adjustable

aluminum

ammeter

bracket

breaker

cabinet

cable television

circuit breaker

communication

conduit

copper

cool white

dedicated

direct current

distribution panel

double pole double-throw

electric water cooler

electrical contractor

electrically operated

energy saving ballast

Electronics Industry

remove and reinstall

existing to remain remove completly

remove and replace w/ new RN

DEMOLITION ABBREVIATIONS

disconnect

downlight

electrical

elevator

emergency

eaulpment

exhaust fan

explosion proof

dual element

drawing

diameter

closed circuit television

current limiting fuse

current transformer

above finished grade

far end crosstalk

fire alarm graphic

annunciator panel

full load amperes

general contractor

heating ventilating

high power factor

air conditioning

high voltage

horsepower

incandescent

junction box

kilowatt

isolated ground

kilovar (reactance)

kilowatt hour meter

lightning arrester

light emitting diode

main circuit breaker

main distribution panel

manual transfer switch

mechanical contractor

motor circuit protector

motor control center

motor operated damper

master antenna television

low voltage

main lugs only

manufacturer

medium voltage

metal-clad cable miscellaneous

mounting height

metal halide

mounted

millivolt

inverter power supply

kilovolt ampere

fire alarm control panel

full voltage non-reversing

ground fault interrupter

high intensity discharge

fire alarm annunciator panel FAAP

FIXT

FLOUR

fire alarm

fixture

fluorescent

footcandles

generator

hand hole

National Electric

Manufacturer Association

Not Available/Not Applicable

overload heater element

National Electric Code

Near End Crosstalk

night light

normally opened

not in contract

polyvinyl chloride

potential transformer

single pole double throw

single pole single throw

solid state ballast

[elecommunications

Industry Association Technical Service Bulletin

twisted shielded pair

unshielded twisted pair

unless otherwise noted

Underwriter's Laboratories

uninterruptible power supply UPS

REC/RECPT

SCHED/SCH

SWGR

REQ'D

not to scale

on center

overhead

plywood

pull box

rapid start

receptacle reflector

required

rigid galvanized

steel conduit

rough in only

switchboard

transformer

twin tube

voltmeter

warm white

weatherproof

without

typical

switchgear

schedule

- 23. THE ELECTRICAL CONTRACTOR SHALL COORDINATE CONDUIT ROUTING (PLAN AND ELEVATION) WITH THE LIGHTING (NEW AND EXISTING), CEILING ELEVATION, STRUCTURE, DUCTWORK, PIPING, ETC. REQUIRED FOR THE COMPLETION OF THE PROJECT, PRIOR TO INSTALLATION.
- 24. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NEW OPENINGS IN EXISTING PARTITIONS, EXTERIOR WALLS, FLOORS, AND ROOFS FOR THE INSTALLATION OF ANY NEW ELECTRICAL WORK. FURNISH AND INSTALL ALL REQUIRED LINTELS AND SLEEVES FOR THIS NEW WORK, ALL CONDUITS SHALL HAVE SLEEVES INSTALLED. ALL SLEEVES INSTALLED THROUGH EXTERIOR WALLS SHALL HAVE
- LINK SEALS INSTALLED.

 25. THE ELECTRICAL CONTRACTOR SHALL PROTECT ALL EXISTING MATERIALS THAT ARE TO REMAIN IN PLACE FROM DAMAGE. ANY DAMAGE TO EXISTING FINISHES, MATERIALS, ETC., SHALL BE REPLACED BY THE ELECTRICAL CONTRACTOR TO MATCH THE
- ADJACENT FINISH.

 26. THE ELECTRICAL CONTRACTOR SHALL MAINTAIN THE BUILDING IN WEATHERTIGHT AND WATERPROOF CONDITION THROUGHOUT THE DURATION OF THEIR WORK. DO NOT LEAVE HOLES THROUGH WALLS AND/OR ROOFS OPEN TO THE ELEMENTS WHEN NO WORK IS OCCURRING IN THOSE AREAS.
- 27. THE ELECTRICAL CONTRACTOR SHALL SECURE AND PROTECT THE BUILDING AND/OR WORK AREA WITH FIRE RETARDANT TEMPORARY PLYWOOD PARTITIONS (WITH LOCKING DOORS), ETC. CLOSE ALL EXISTING OPENINGS AS REQUIRED. COORDINATE THIS WORK WITH THE OWNERS REPRESENTATIVE PRIOR TO STARTING. IF TEMPORARY PARTITIONS IMPEDE THE FLOW OF EGRESS TO REQUIRED EGRESS DOORS AND STAIRS, THE ELECTRICAL CONTRACTOR SHALL PROVIDE EXIT SIGNS, AND SIGNAGE INDICATING SUCH.
- 28. THE ELECTRICAL CONTRACTOR SHALL CAULK ALL JOINTS BETWEEN METAL FRAMES AND EXISTING CONDITIONS. THIS APPLIES TO BOTH INTERIOR AND EXTERIOR INSTALLATIONS.
- 29. THE DIMENSIONS SHOWN ON THE DRAWINGS ARE FOR THE CONVENIENCE OF THE ELECTRICAL CONTRACTOR ONLY. VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO PERFORMING ANY WORK.

30. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL CONDUITS

- CONCEALED UNLESS NOTED OTHERWISE. EXPOSED CONDUIT SHALL ONLY BE INSTALLED IN CHASES, EXPOSED CEILING AREAS, JANITOR CLOSETS, AND MECHANCIAL/ELECTRICAL ROOMS.

 31. ALL ELECTRICAL EQUIPMENT SHALL BE GROUNDED AND/OR BONDED
- PER THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE.
 PROVIDE ALL GROUNDING AND/OR BONDING COMPONENTS NOT
 EXPLICITLY SHOWN ON THE DOCUMENTS.

 32. THE ELECTRICAL CONTRACTOR SHALL PROVIDE TYPEWRITTEN
 PANELBOARD DIRECTORIES, INDICATING THE LOADS SERVED BY THE

SCHEDULES FOR FUTURE USE BY THE OWNER.

RESPECTIVE PANELS. AMEND AS REQUIRED FOR AS-BUILT

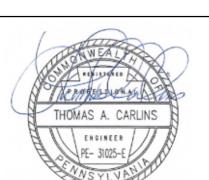
CONDITIONS. PROVIDE ELECTRONIC VERSIONS OF THE PANELBOARD

- 33. THE ELECTRICAL CONTRACTOR SHALL REVIEW THE WORK REQUIRED WITH THE APPLICABLE UTILITY COMPANIES SERVING THE PROJECT. ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE INDIVIDUAL UTILITY COMPANIES.
- 34. THE ELECTRICAL CONTRACTOR SHALL CONTACT THE NATIONAL '811-CALL BEFORE YOU DIG', SYSTEM PRIOR TO PERFORMING ANY UNDERGROUND INSTALLATION WORK. THE ELECTRICAL CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED IN AND AROUND THE EXCAVATION AREA.
- 35. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER PRIOR TO STARTING ALL PHASES OF THE PROJECT. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER WHAT WORK, IF ANY, HAS TO BE COMPLETED DURING SECOND OR THIRD SHIFT.
- 36. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL TEMPORARY POWER CONNECTIONS TO KEEP AREAS UP AND OPERATIONAL DURING THE CONSTRUCTION. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THESE REQUIREMENTS WITH
- CONTRACTOR SHALL COORDINATE THESE REQUIREMENTS WITH THE OWNER.
 THE ELECTRICAL CONTRACTOR SHALL GENERATE A DETAILED METHOD OF PROCEDURE (MOP) DOCUMENT INDICATING HOW HE/SHE INTENDS TO PERFORM EACH STEP IN THE PROJECT. THIS MOP SHALL BE PRESENTED TO THE OWNER AND ENGINEER PRIOR TO STARTING THE PROJECT, FOR SIGN OFF. THE MOP MAY BE REVISED BASED ON CHANGES IN THE PROJECT CONSTRUCTION, ETC. AT ALL POINTS IN THE PROJECT THE OWNER SHALL BE MADE AWARE OF CHANGES TO THE MOP, AND A REVISED MOP SHALL BE PRESENTED TO

THE OWNER AND ENGINEER FOR SIGN OFF.

BID DOCUMENTS

CONSULTANTS:





Drawing Title
BASEMENT AND FIRST FLOOR PLAN DEMOLITION

Approved: Project Director

Project Title
Elevator Upgrade for the Wilkes-Barre VA

Location 1111 East End Blvd Wilkes-Barre, PA 18711

Date

Project Number 693-12-106

Building Number 1

Drawing Number E001

TC

10 / 03 / 13

Office of Construction and Facilities Management

Department of Veterans Affairs

